



**Columbia River type basalt series**

**Tertiary granites**

**Pre-Tertiary granites**

**Joint Day-Clarno Series**

**Pre-Tertiary slates + schistals + basic crystallines**

**COMPARES WITH PALEOZOIC**

**THE SUMPTER QUAD**

MORROW CO.  
UMATILLA CO.

UMATILLA CO. MTS.  
UNION CO.

STARKEY

EXPERIMENTAL

RANGE

WUKIAH

Parallel

R. 34 E.

R. 35 E.

GRANT CO.